

Applicants' attorney has made every effort to place this patent application in condition for allowance and to demonstrate that it is in fact in such condition. It is therefore earnestly requested that this application, as a whole, receive favorable reconsideration and that all of the claims be allowed as presently constituted. Should there remain any unanswered questions, the Examiner is requested to call the applicants' undersigned attorney at the telephone number indicated below.

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Respectfully submitted,

By

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(21) International Application Number: PCT/IB99/00734 (22) International Filing Date: 22 April 1999 (22.04.99) (30) Priority Data: 60/082,692 22 April 1998 (22.04.98) US (71) Applicant (for all designated States except US): IMAGING RE-SEARCH INC. [CA/CA]; Brock University, 500 Glenridge Avenue, St. Catharines, Ontario L2S 3A1 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): RAMM, Peter [CA/CA]; 290 Riverview Boulevard, St. Catharines, Ontario L2T 3N4 (CA). NADON, Robert [CA/CA]; 35 South Drive, St. Catharines, Ontario L2R 4T9 (CA).		(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: PROCESS FOR EVALUATING CHEMICAL AND BIOLOGICAL ASSAYS (57) Abstract An analytical process is disclosed, for discriminating data acquired from samples with overlapping distributions, and for improving and assessing the statistical validity of hybridization signal in arrays of assays. The process includes method of convolving data into two or more discrete probability density functions representing signal and nonsignal, discrete fluors, or other convolved independent variables. The system uses the probability density functions to assign hybridization signals, objectively, to one of the modeled distributions. Subsequent processes assess variability inherent to the arrays, and use this assessed variation to establish reliability scores and confidence limits for complete hybridization arrays, and for discrete hybridization assays within arrays.		